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IS 5108 (1969): Recommendation on nominal rates of flow for oil-hydraulic system elements [PGD 16: Fluid Power]

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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśākām

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

RECOMMENDATION ON NOMINAL RATES OF FLOW
FOR OIL-HYDRAULIC SYSTEM ELEMENTS

1. Scope — Prescribes nominal rates of flow for oil-hydraulic system elements.

2. Terminology

2.1 Nominal Rates of Flow (Q_n) — The flow rating for elements of hydraulic systems. This refers to the rate of flow through the elements when working at its nominal parameters.

3. Nominal Rates of Flow — The recommended nominal rates of flow in litres per minute shall be as given below:

0.25	0.4	0.63	1	1.6	2.5	4	6.3
10	16	25	40	63	100	160	200
250	320	400	500	630	800	1 000	

Explanatory Note

Hydraulic systems are almost invariably better suited to applications requiring precise and stepless control of speed or position. To help the manufacturer of hydraulic units to offer standard equipment and for the user to order equipment on such basis, it is very necessary to lay down a rationalized series of preferred pressures, rates of flow and bores for oil-hydraulic system elements.

This standard is one of a series of Indian Standards on parameters for oil-hydraulic systems. Other standards in the series are:

IS : 5107-1969 Recommendation on nominal pressures for oil-hydraulic system elements

IS : 5109-1969 Recommendation on nominal bores for oil-hydraulic system elements